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10 July 1958

MEMORANDUM FOR: Chief, Technical Services Staff

SUBJECT : Request for Extension of Research and Development in the  
Field of Balloon Technology1. Description of the Project

The requested extension will consist of research and development necessary to complete a personnel and a leaflet balloon project.

2. Purpose of the Project

The purpose of these projects is to design an operationally feasible hot-air personnel balloon and also to provide descriptive literature which will enable indigenous groups to fabricate completely sterile leaflet balloon systems.

Experimentation has been carried out which has established the basic parameters relating to the design of a hot-air balloon capable of carrying one man for two to six hours at altitudes up to 10,000 feet. This work has included a definition of the heat transfer considerations involved as well as testing of a full-scale prototype indoors under controlled conditions. It is now necessary to conduct additional tests outdoors to gain flight experience and to prove out the validity of applying the experimental data to predict the vehicle's behavior.

To meet an area division requirement for completely sterile leaflet balloon systems capable of fabrication by indigenous groups, flight testing of heretofore unused ballasting and dispensing systems has been conducted. A small amount of additional work remains so that preparation of manuals, drawings, and a final report can be completed.

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3. Recommended Contractor

This is a continuation of work performed by [redacted]

[redacted] and, therefore, they are the recommended contractor.

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4. Support Requirements

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[Redacted]

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5. Total Estimated Cost

The cost for this work has been estimated [Redacted] to be \$18,222.00.

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6. Security Information

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[Redacted]

7. Project Engineers

The project engineers for this work are [Redacted]

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[Redacted] Room 210, West Outbuilding, extension

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[Redacted]

Chief  
TSS/Engineering Division

*[Signature]*

DD/P/TSS/ED [Redacted]

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